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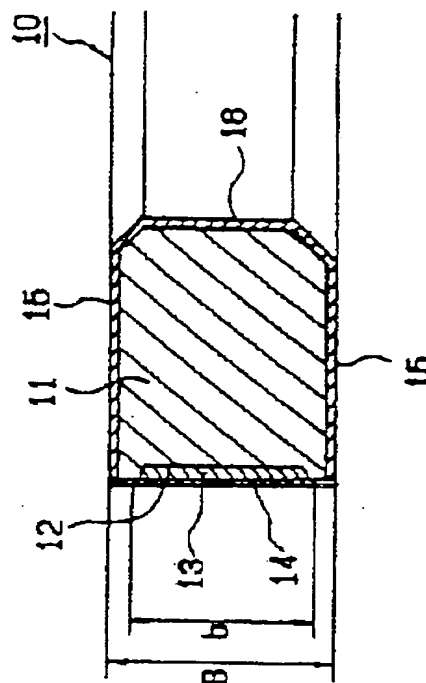
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APPLICANT : RIKEN CORP;

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TITLE : PISTON RING AND MANUFACTURE THEREOF



ABSTRACT : PURPOSE: To effect prevention against separation as well as restrain any surface crack from occurring by installing a thermal spraying film on the peripheral surface of a ring body a resin film on a surface of the thermal spraying film, respectively, and setting up each metal plating layer at both sides of the ring body.

CONSTITUTION: In this piston ring 10, a ring body 11 is installed in a annular recess groove 12 along a peripheral surface, and a molten metal solution of molybdenum or the like is thermally sprayed to this annular recess groove 12, thereby forming a thermal spraying film 13. In addition, a surface of this thermal spraying film 13 is covered, forming a resin film 14 covering most of the peripheral surface by thickness B, and as for resin available, fluoro-resin of Teflon, by way of example, is used. With this constitution, fitness with a cylinder at the initial stage of operation is improved. Moreover, wet metal plating layer 15, 15 are installed at both sides of the ring body 11, through which reinforcement of abrasion resistance for contact with the ring groove installed in a piston of an engine is well promoted.

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